

**HYBRID OPTICAL TRANSCEIVERS FOR FREE SPACE OPTICAL
COMMUNICATION**

Abstract

5 Optical transceivers include a diffractive optical element (DOE) attached to a surface of a prism or other optical support. The DOE is configured to direct an input optical signal to a curved reflective surface or receive an output optical signal from the curved reflective surface at angles greater than a critical angle. In some examples, the optical support includes one or more curved reflective surfaces and the DOE is a
10 hologram. Such optical transceivers can be provided with optical mounts configured for attachment to a building window.

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